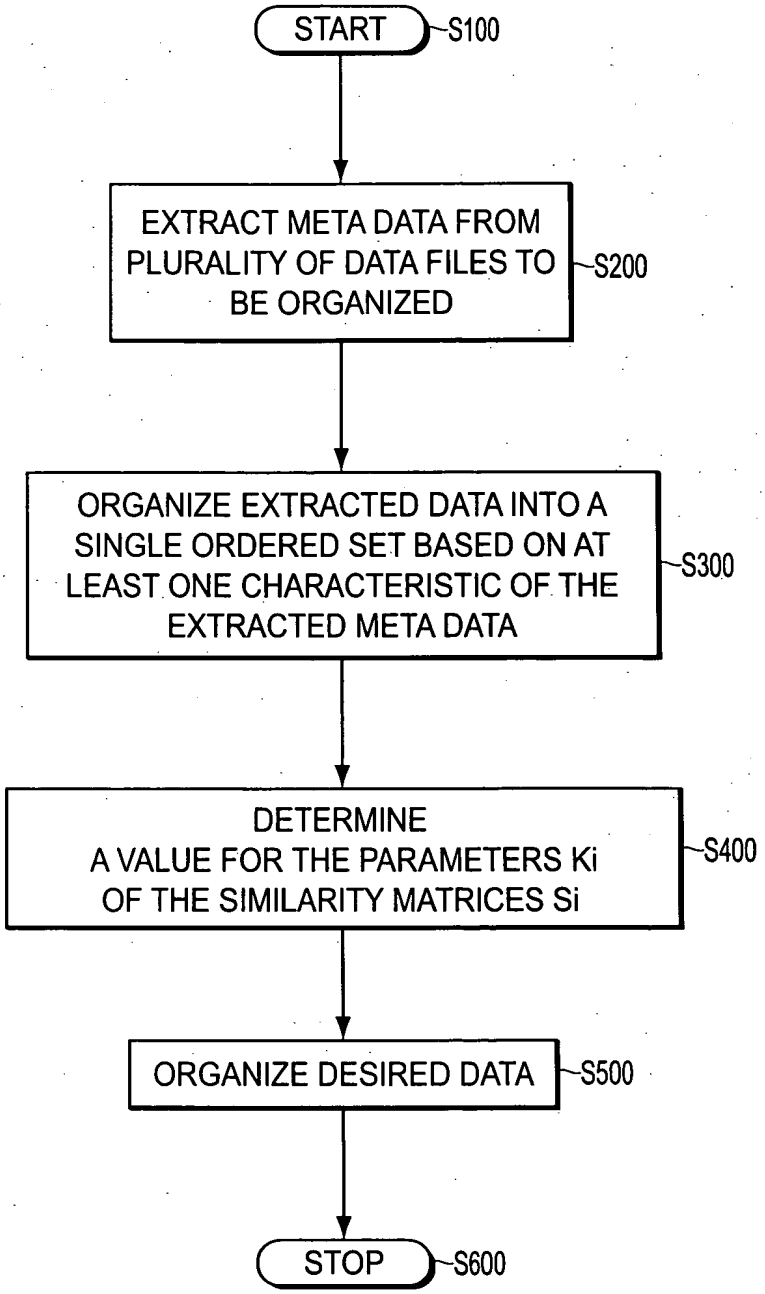
START
S100
EXTRACT META DATA FROM PLURALITY OF DATA FILES TO BE ORGANIZED
S200
ORGANIZE EXTRACTED DATA INTO A SINGLE ORDERED SET BASED ON AT LEAST ONE CHARACTERISTIC OF THE EXTRACTED META DATA
S300
DETERMINE A VALUE FOR THE PARAMETERS Ki OF THE SIMILARITY MATRICES Si
S400
ORGANIZE DESIRED DATA
S500
STOP
S600

FIG. 1

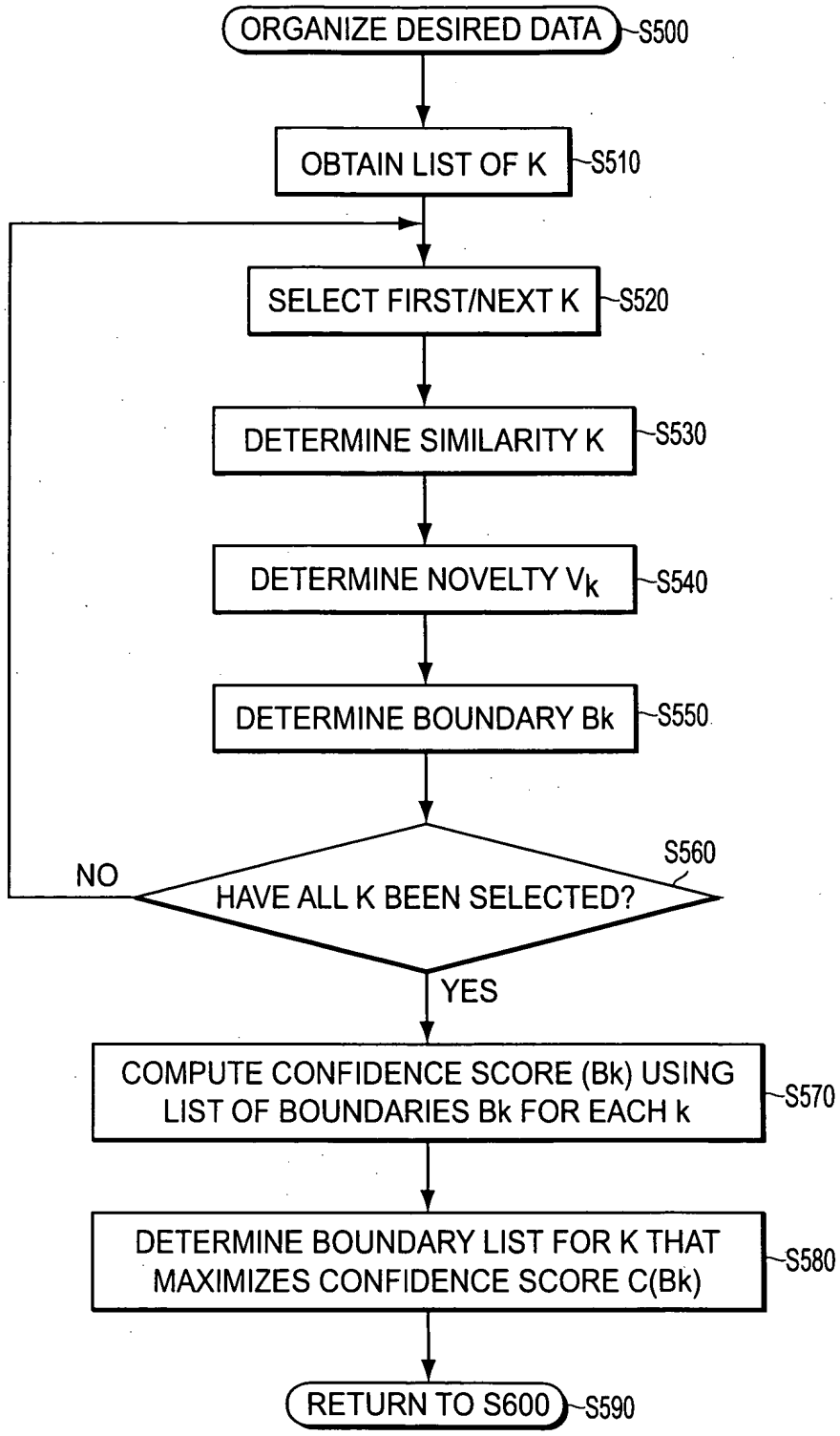
ORGANIZE DESIRED DATA
S500
OBTAIN LIST OF K
S510
SELECT FIRST/NEXT K
S520
DETERMINE SIMILARITY K
S530
DETERMINE NOVELTY V_k
S540
DETERMINE BOUNDARY Bk
S550
S560
HAVE ALL K BEEN SELECTED?
NO
YES
COMPUTE CONFIDENCE SCORE (Bk) USING LIST OF BOUNDARIES Bk FOR EACH k
S570
DETERMINE BOUNDARY LIST FOR K THAT MAXIMIZES CONFIDENCE SCORE C(Bk)
S580
RETURN TO S600
S590

FIG. 2

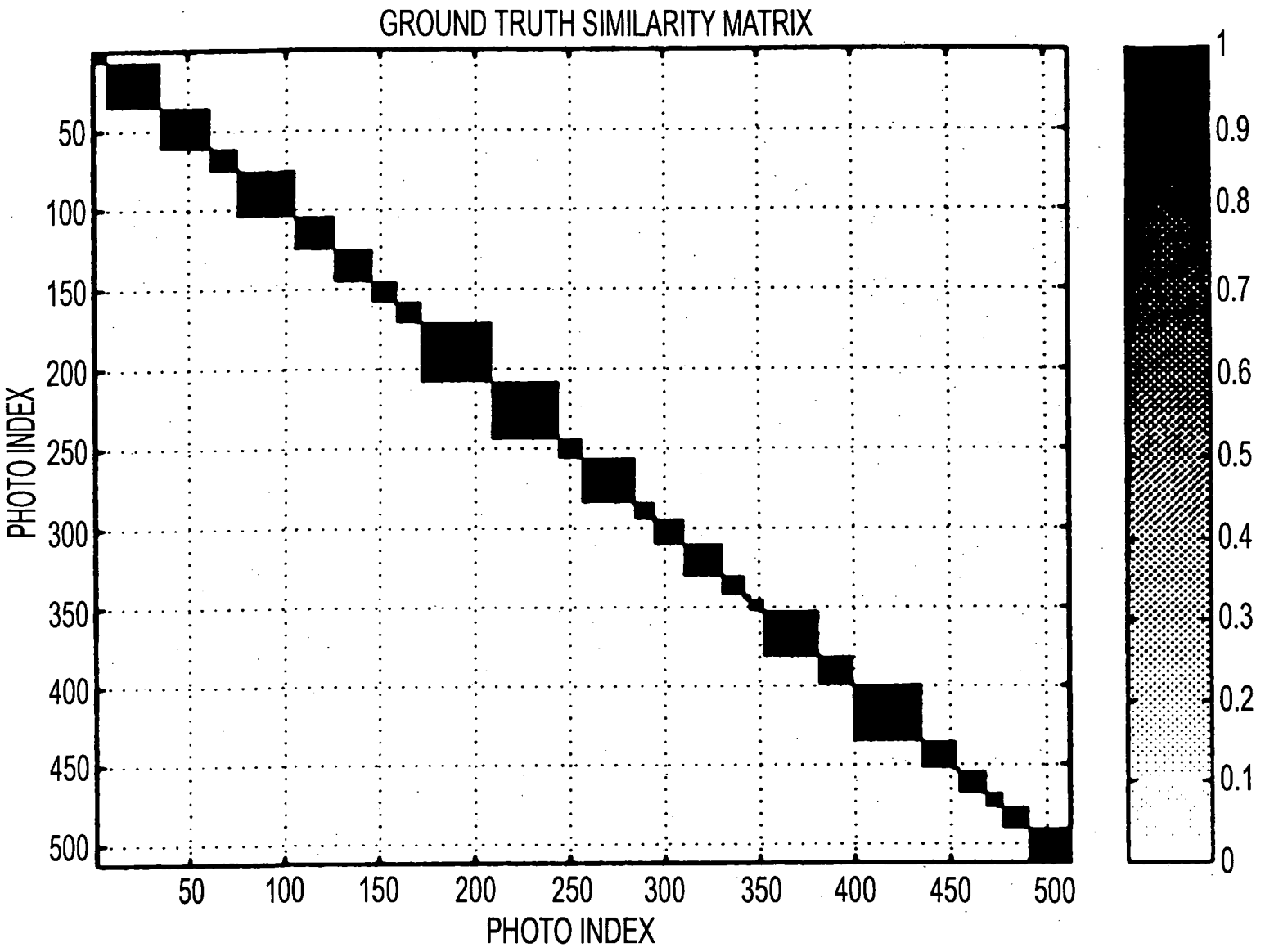

FIG. 3

BEST AVAILABLE COPY

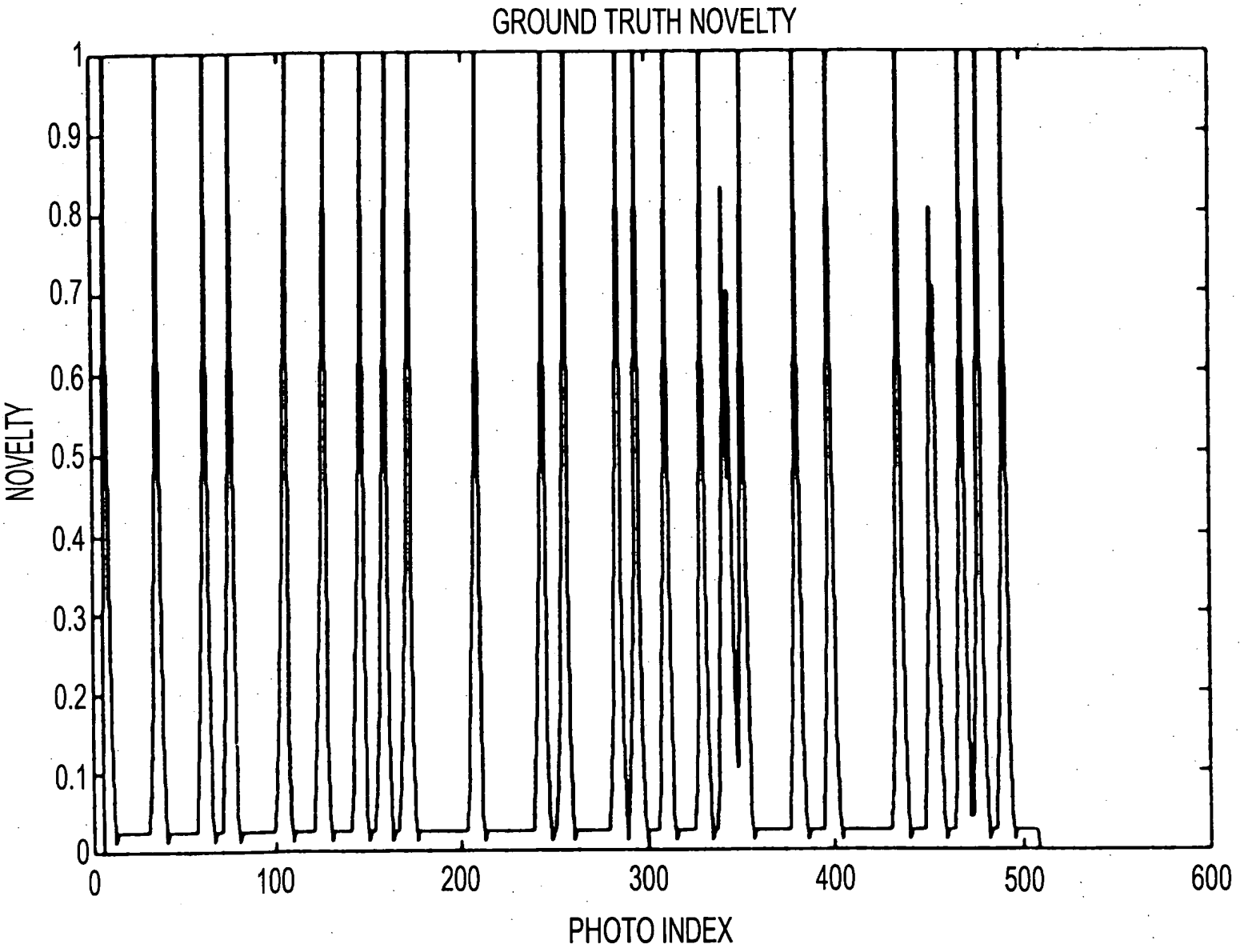
GROUND TRUTH NOVELTY
NOVELTY
PHOTO INDEX
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
100
200
300
400
500
600

FIG. 4

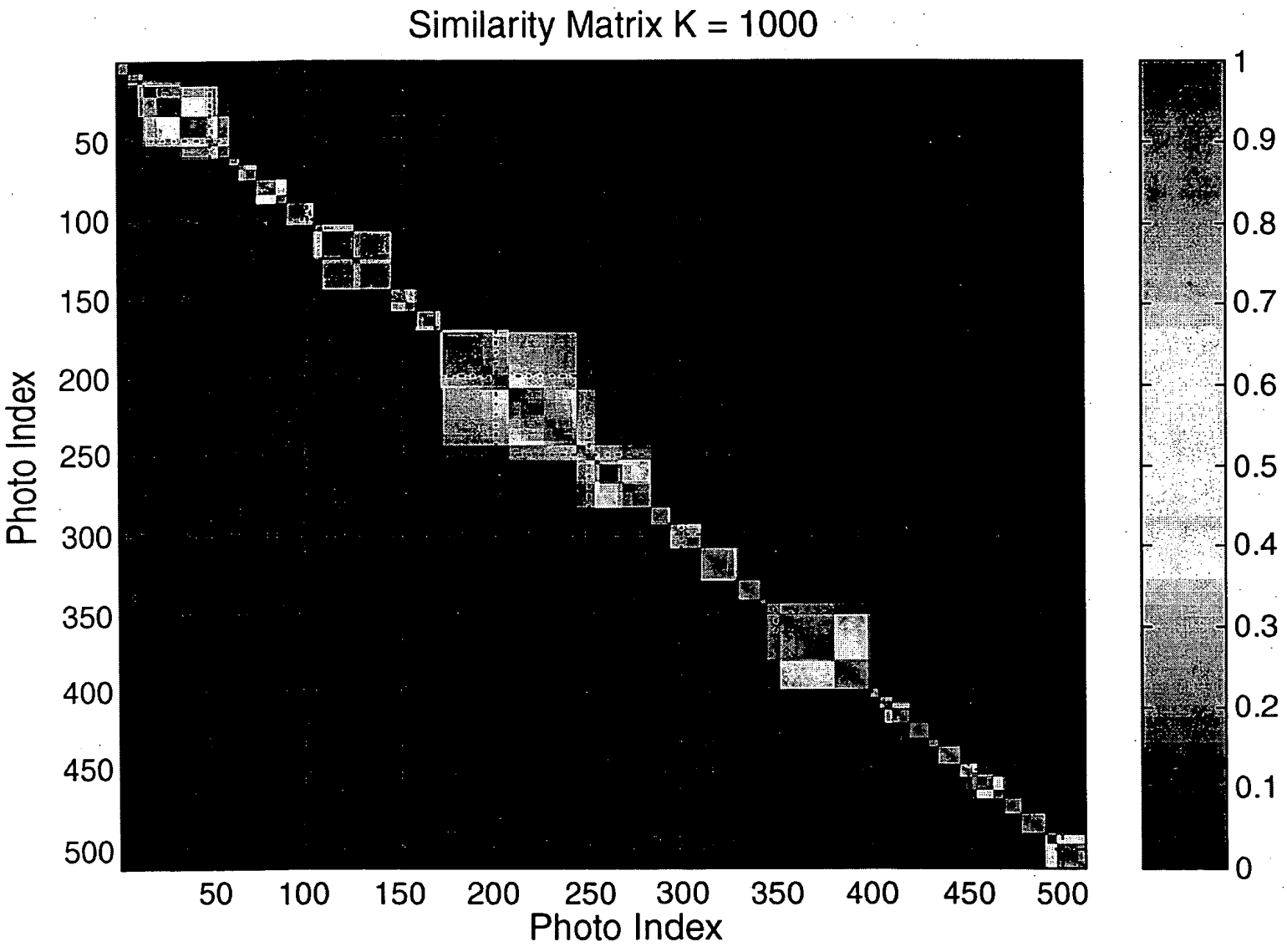

FIG. 5

BEST AVAILABLE COPY

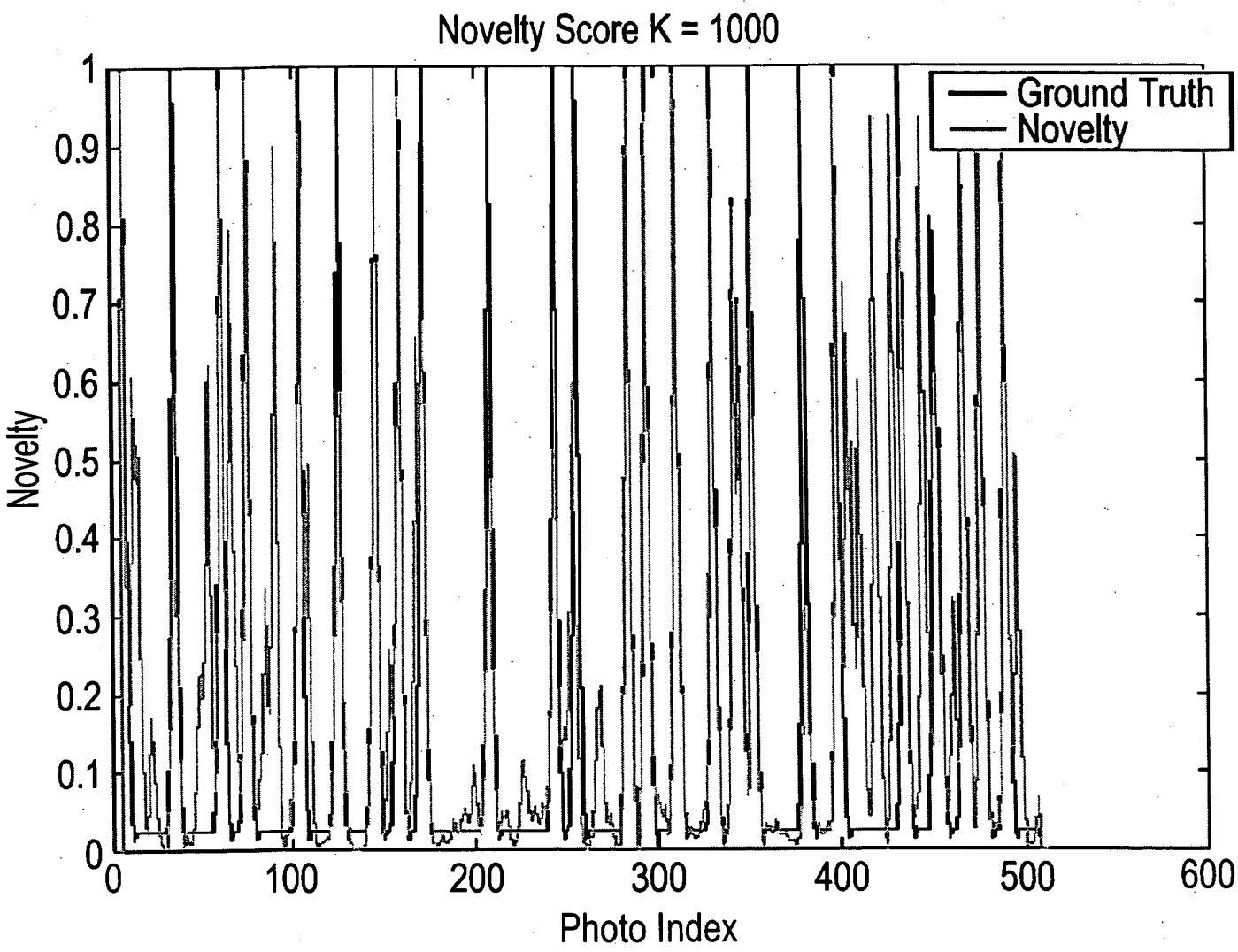
Novelty Score K = 1000
Ground Truth
Novelty
Novelty
Photo Index
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
100
200
300
400
500
600

FIG.6

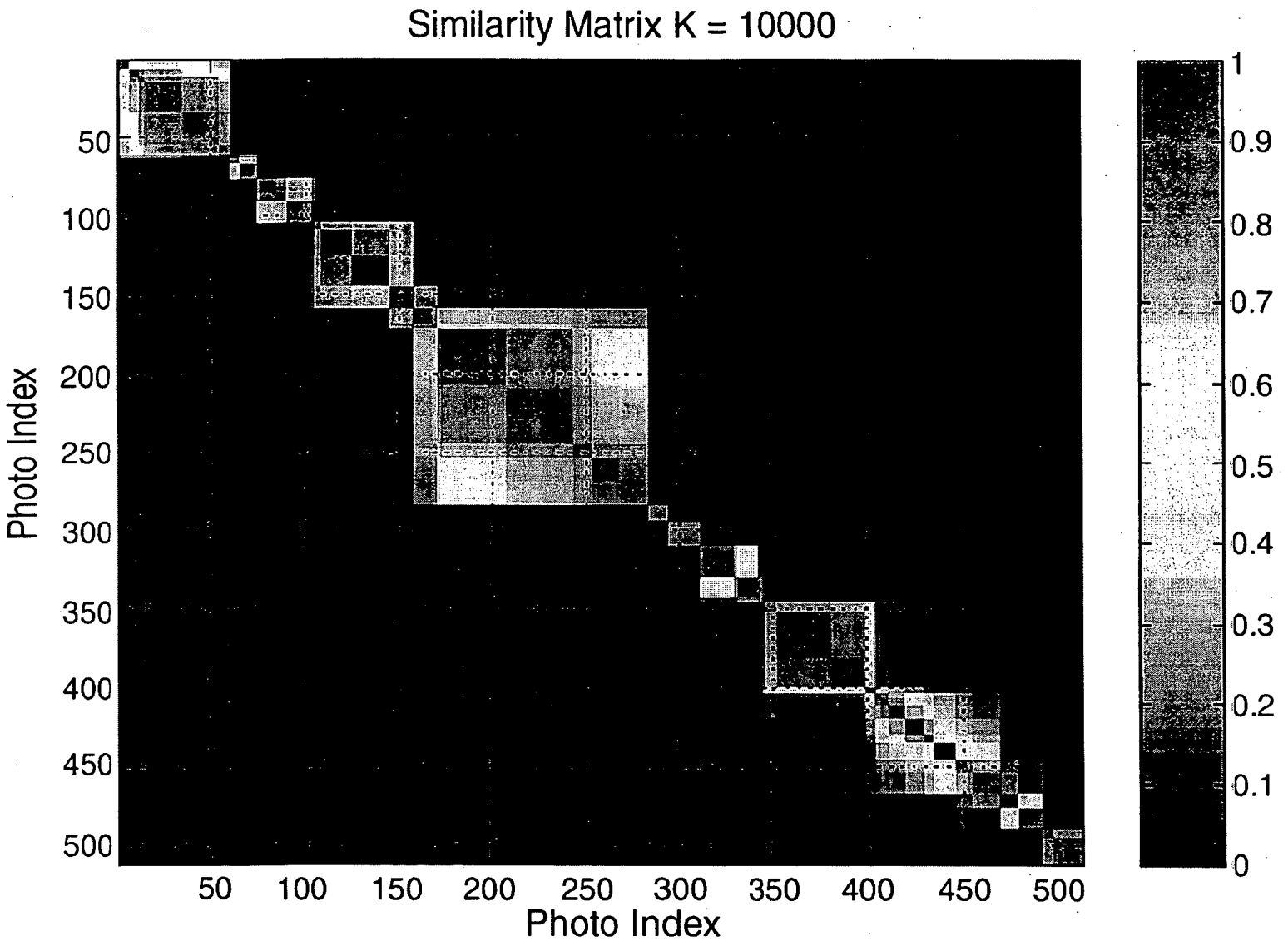

FIG. 7

BEST AVAILABLE COPY

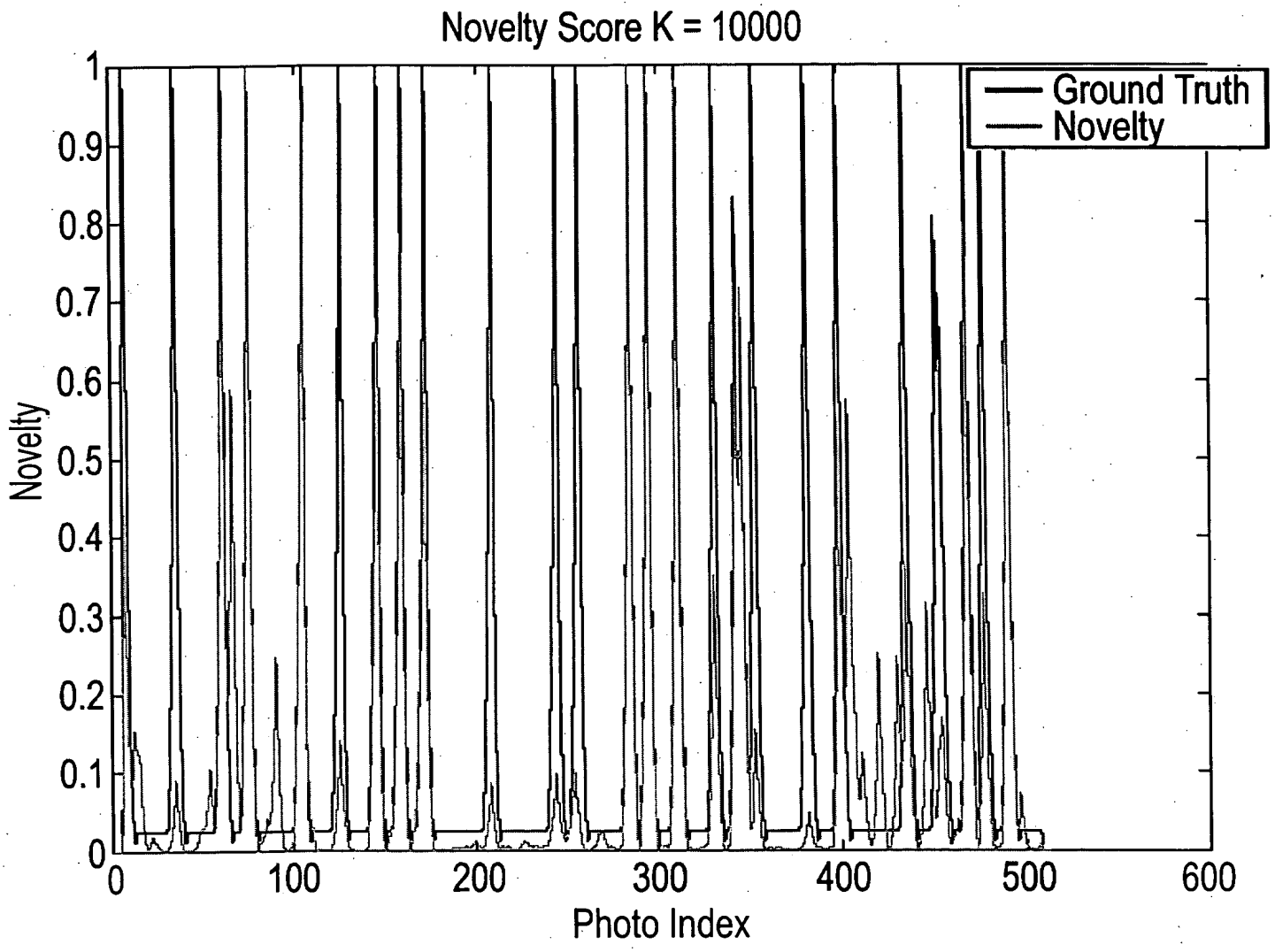
Novelty Score K = 10000
Ground Truth
Novelty
Novelty
Photo Index
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
100
200
300
400
500
600

FIG. 8

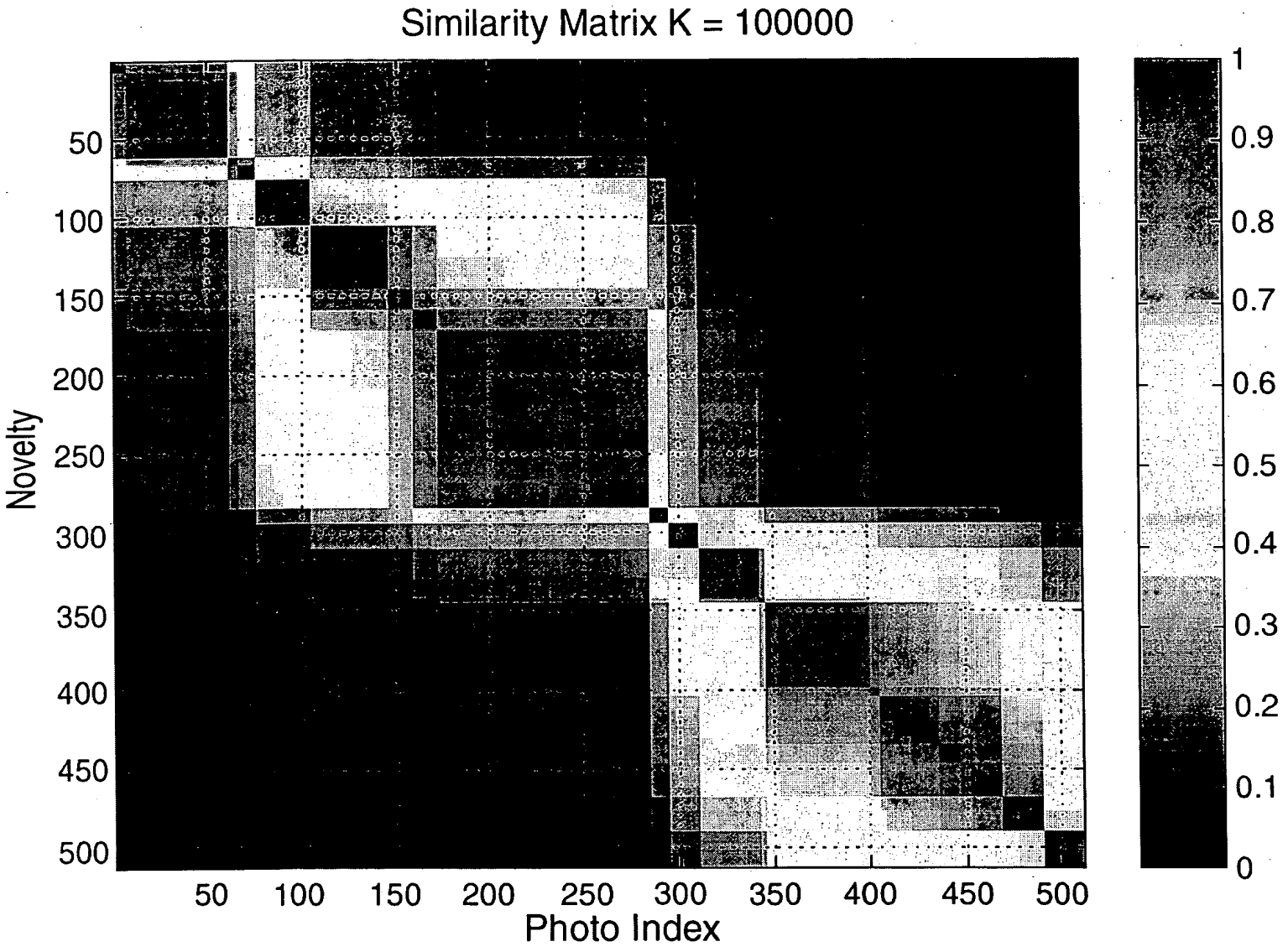

FIG. 9

BEST AVAILABLE COPY

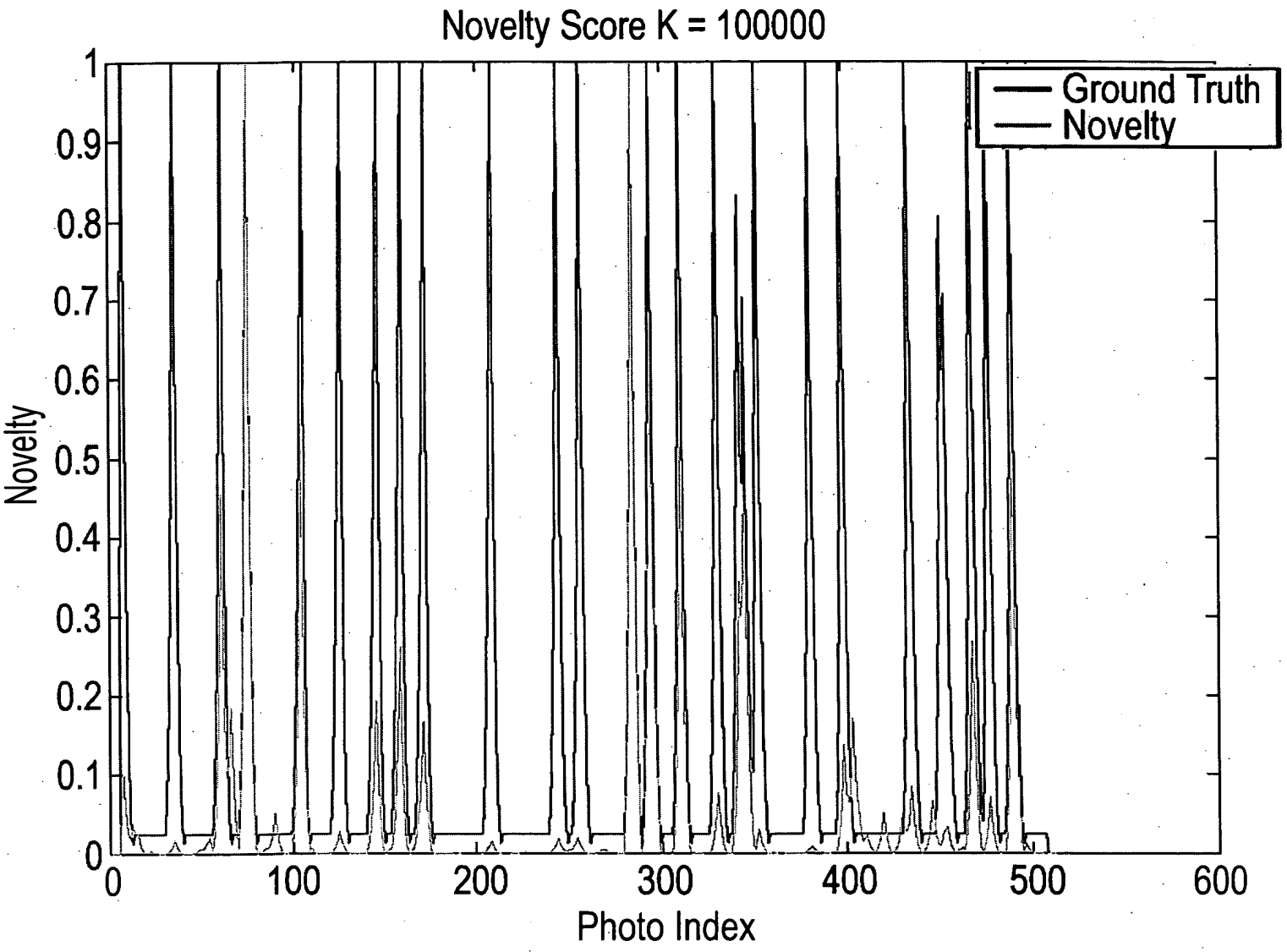
Novelty Score K = 100000
Ground Truth
Novelty
Novelty
Photo Index
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
100
200
300
400
500
600

FIG. 10

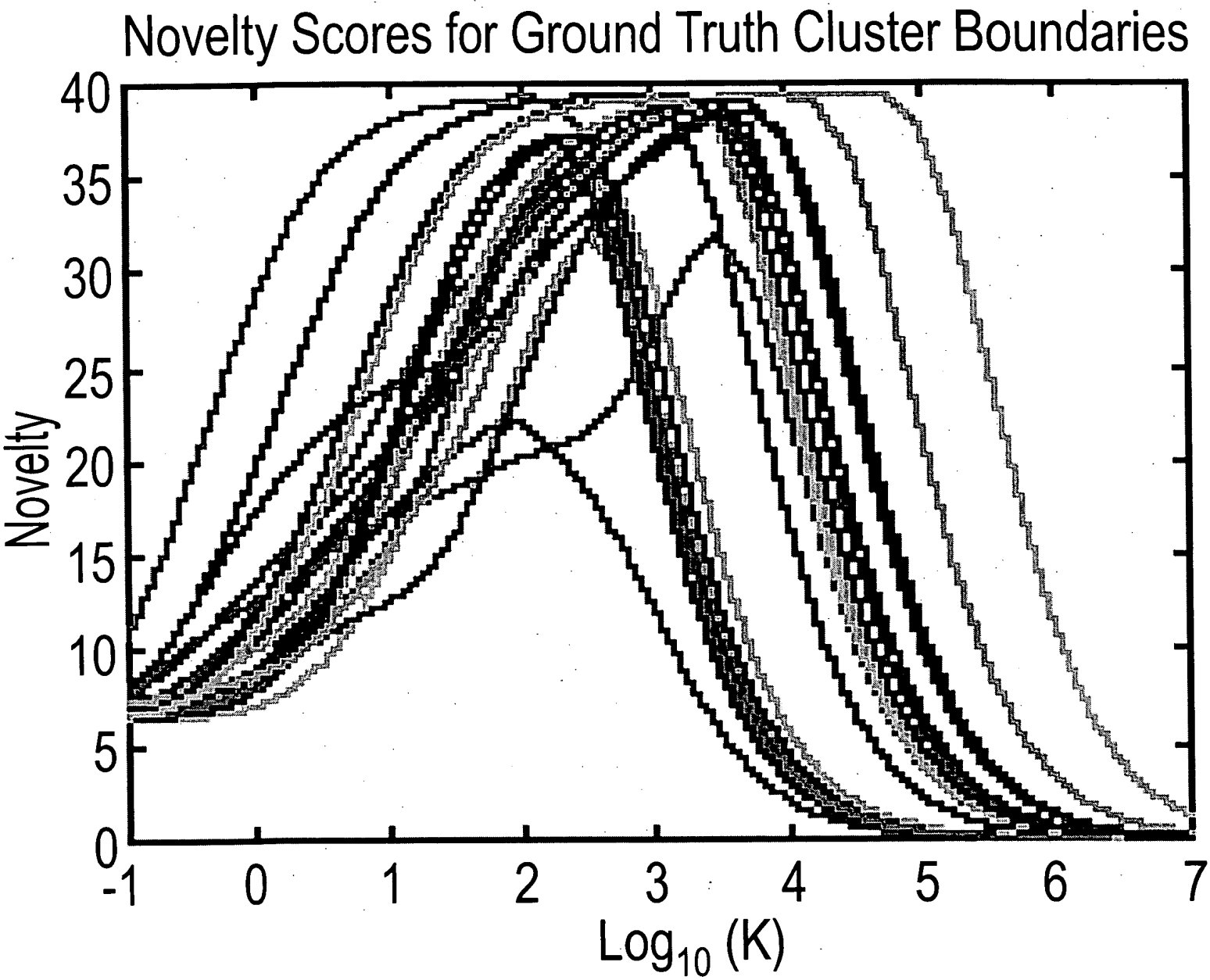

FIG. 11

BEST AVAILABLE COPY

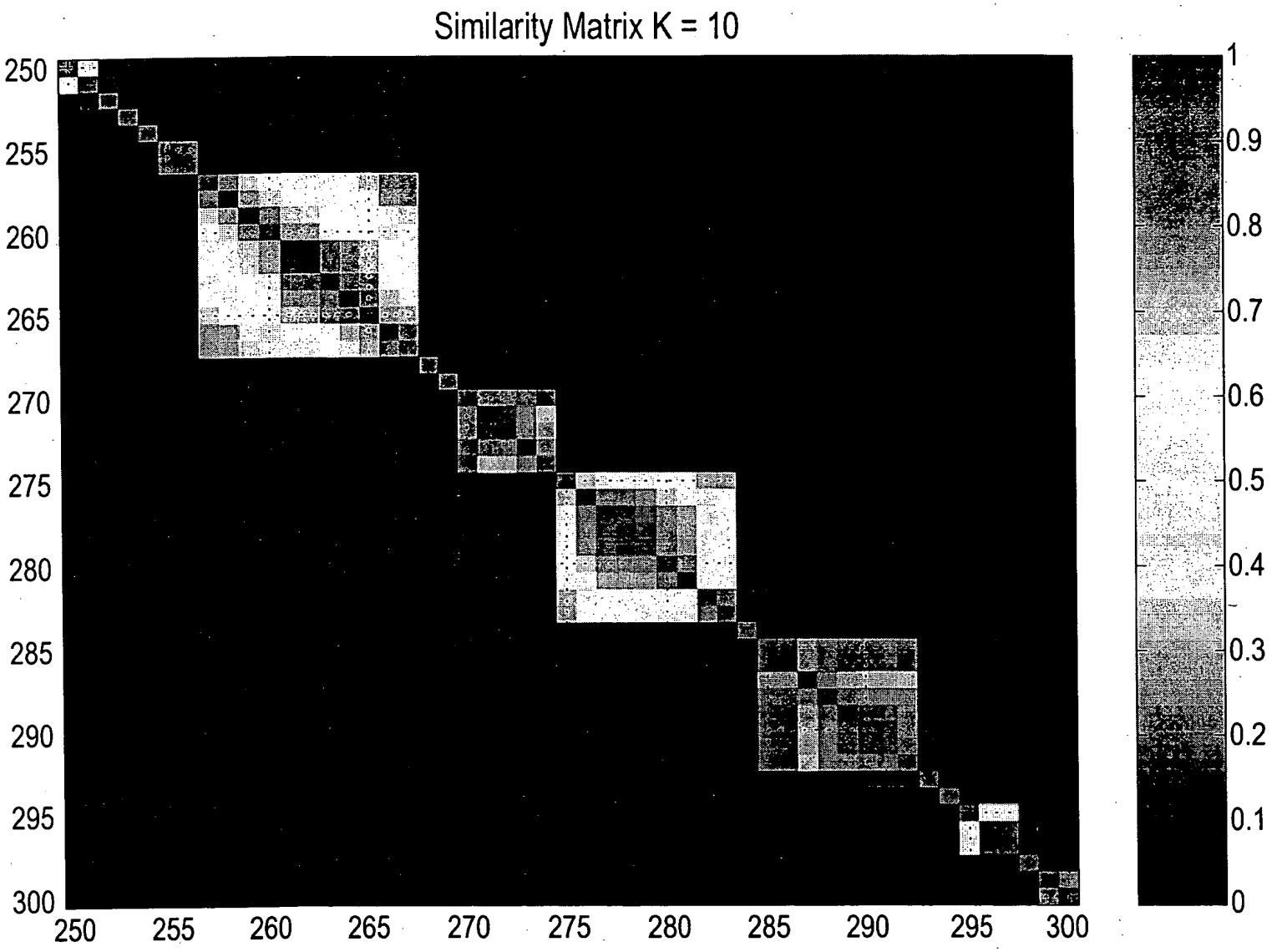

FIG. 12

BEST AVAILABLE COPY

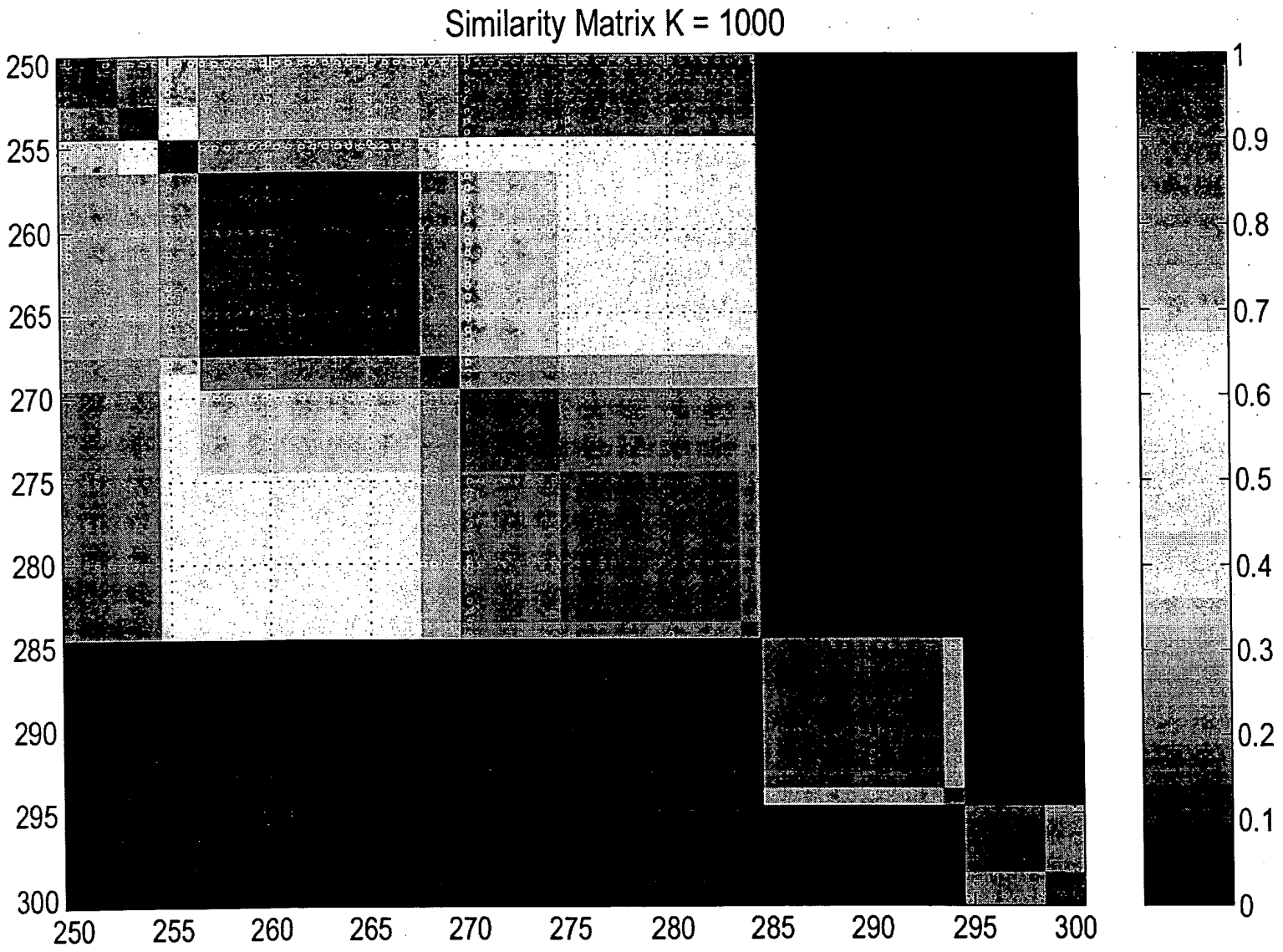

FIG. 13

BEST AVAILABLE COPY

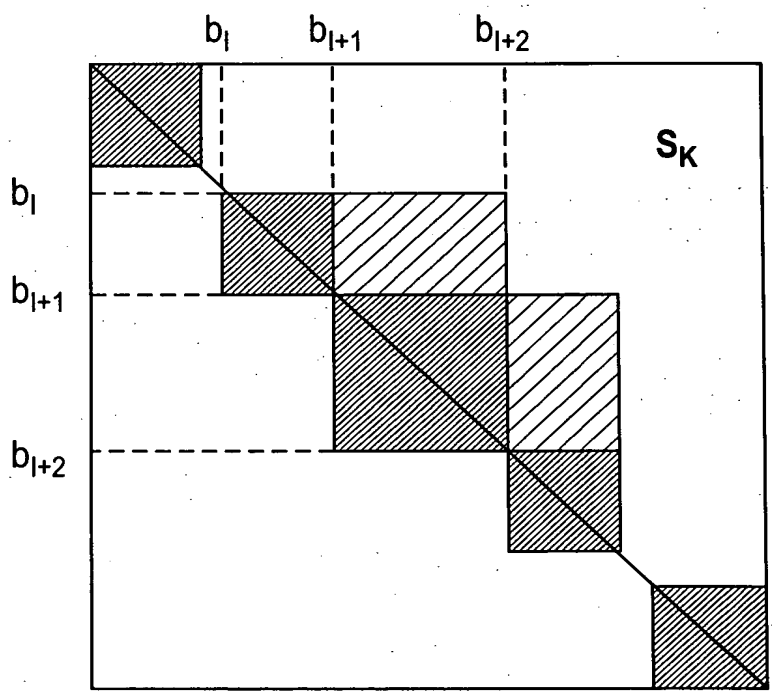

FIG. 14

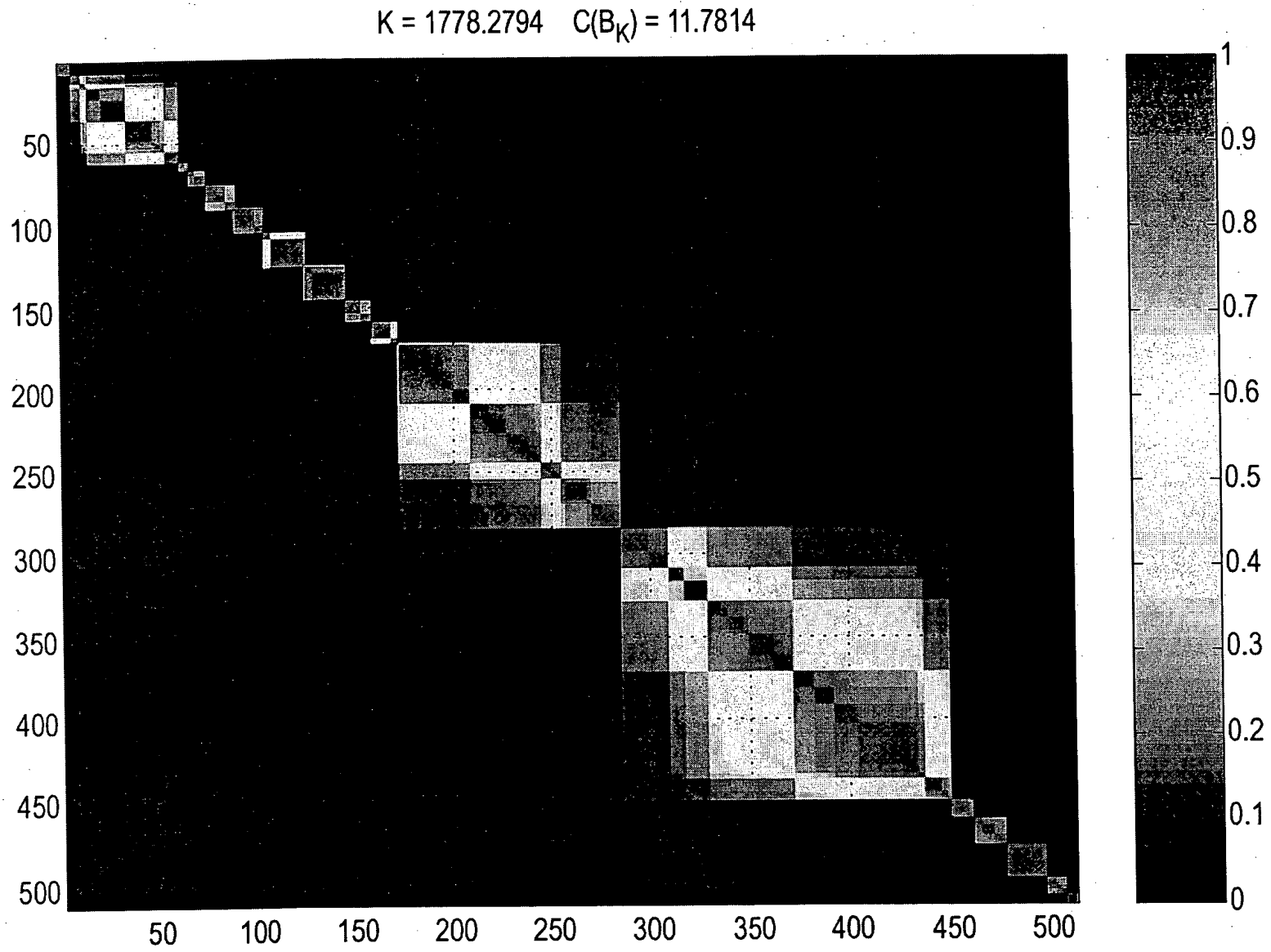

FIG. 15

BEST AVAILABLE COPY

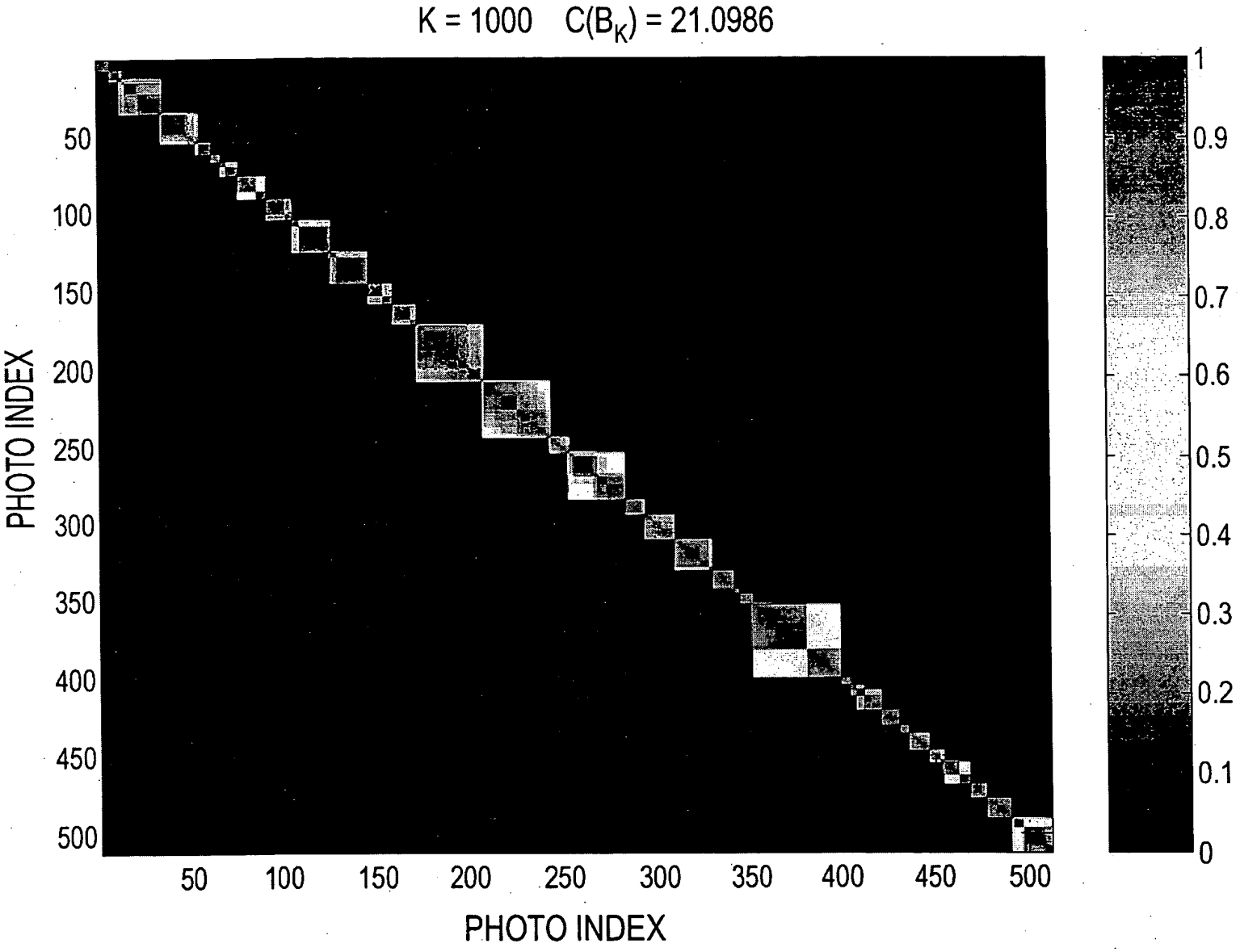

FIG. 16

BEST AVAILABLE COPY

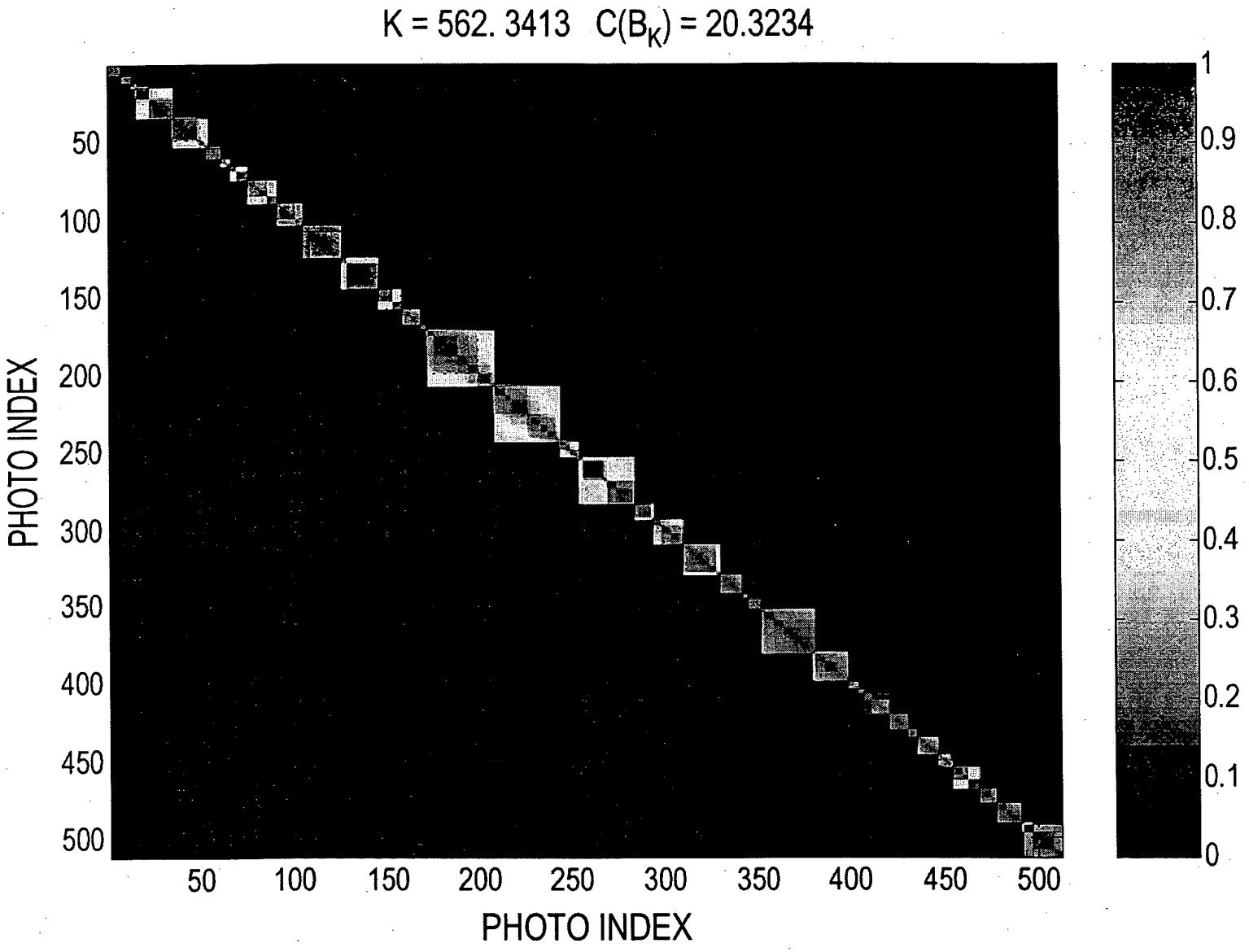

FIG. 17

BEST AVAILABLE COPY

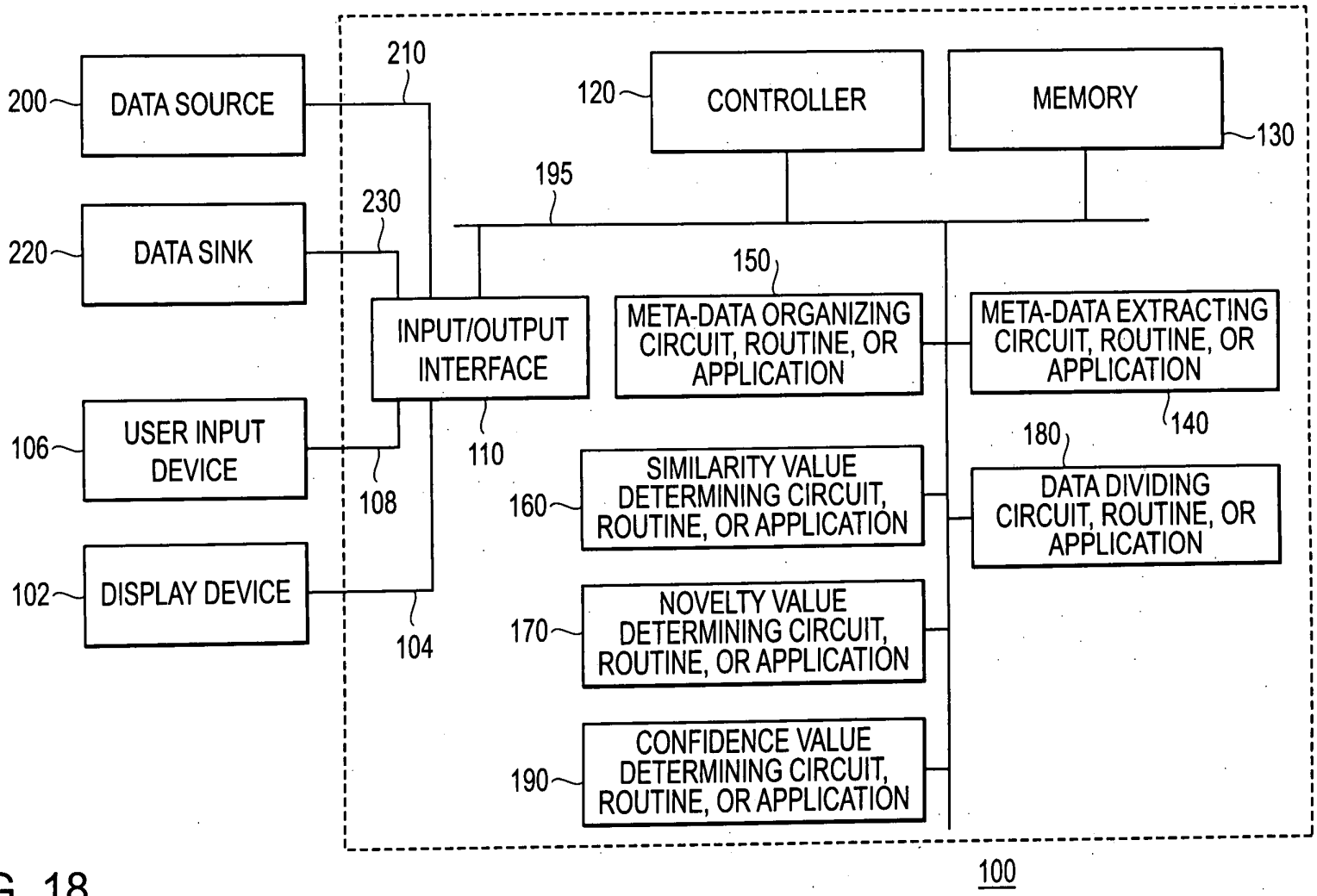
200
DATA SOURCE
210
120
CONTROLLER
MEMORY
130
195
230
220
DATA SINK
150
INPUT/OUTPUT INTERFACE
META-DATA ORGANIZING CIRCUIT, ROUTINE, OR APPLICATION
META-DATA EXTRACTING CIRCUIT, ROUTINE, OR APPLICATION
140
180
106
USER INPUT DEVICE
110
108
SIMILARITY VALUE DETERMINING CIRCUIT, ROUTINE, OR APPLICATION
160
DATA DIVIDING CIRCUIT, ROUTINE, OR APPLICATION
102
DISPLAY DEVICE
104
NOVELTY VALUE DETERMINING CIRCUIT, ROUTINE, OR APPLICATION
170
CONFIDENCE VALUE DETERMINING CIRCUIT, ROUTINE, OR APPLICATION
190
100

FIG. 18